

# Glutaric acid, octyl pentachlorophenyl ester

<b>Inchi:</b>	InChI=1S/C19H23Cl5O4/c1-2-3-4-5-6-7-11-27-12(25)9-8-10-13(26)28-19-17(23)15(21)14
<b>InchiKey:</b>	KETKLSXWKIYYMJ-UHFFFAOYSA-N
<b>Formula:</b>	C19H23Cl5O4
<b>SMILES:</b>	CCCCCCCCOC(=O)CCCC(=O)Oc1c(Cl)c(Cl)c(Cl)c(Cl)c1Cl
<b>Mol. weight [g/mol]:</b>	492.65

## Physical Properties

Property code	Value	Unit	Source
gf	-354.13	kJ/mol	Joback Method
hf	-824.61	kJ/mol	Joback Method
hfus	63.62	kJ/mol	Joback Method
hvap	103.71	kJ/mol	Joback Method
log10ws	-8.68		Crippen Method
logp	7.933		Crippen Method
mcvol	330.890	ml/mol	McGowan Method
pc	1206.47	kPa	Joback Method
rinpola	3224.00		NIST Webbook
tb	1025.43	K	Joback Method
tc	1256.94	K	Joback Method
tf	686.83	K	Joback Method
vc	1.284	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	929.23	J/molxK	1025.43	Joback Method
cpg	938.75	J/molxK	1064.02	Joback Method
cpg	946.97	J/molxK	1102.60	Joback Method
cpg	953.87	J/molxK	1141.19	Joback Method
cpg	959.48	J/molxK	1179.77	Joback Method
cpg	963.81	J/molxK	1218.36	Joback Method
cpg	966.87	J/molxK	1256.94	Joback Method
dvisc	0.0001618	Paxs	686.83	Joback Method
dvisc	0.0001102	Paxs	743.26	Joback Method

dvisc	0.0000793	Paxs	799.70	Joback Method
dvisc	0.0000596	Paxs	856.13	Joback Method
dvisc	0.0000464	Paxs	912.56	Joback Method
dvisc	0.0000372	Paxs	969.00	Joback Method
dvisc	0.0000305	Paxs	1025.43	Joback Method

## Sources

<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=U360258&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=U360258&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307I">http://pubs.acs.org/doi/abs/10.1021/ci990307I</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>dvisc:</b>	Dynamic viscosity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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